

CLAIMS

1. (Presently amended.) A fuel composition consisting essentially of a liquid hydrocarbon fuel in admixture with a [[A]] fuel additive composition comprising consisting essentially of 5-95% of a lithium aromatic sulfonate and the remainder an organic peroxide and the fuel additive present in an amount relative to the amount of liquid hydrocarbon fuel from about 1:800 to about 1:1400 effective to achieve improved combustion of the fuel.
2. (Presently amended.) The fuel ~~additive~~ composition of claim 1, wherein the ~~composition~~ additive is provided in a solvent-based system.
3. (Presently amended.) The fuel ~~additive~~ composition of claim 1, wherein ~~there are~~ the additive includes two organic peroxides.
4. (Presently amended.) The fuel ~~additive~~ composition of claim 3, wherein one peroxide is tert-butyl perbenzoate.
5. (Presently amended.) The fuel ~~additive~~ composition of claim 3, wherein one peroxide is 2-butanone peroxide.
6. (Presently amended.) The fuel ~~additive~~ composition of claim 1, wherein the lithium aromatic sulfonate is a C₇₋₃₅ alkylbenzenesulfonate.
7. (Presently amended.) The fuel ~~additive~~ composition of claim 1, wherein the lithium aromatic sulfonate is didodecylbenzene sulfonate.

8. (Presently amended.) The fuel ~~additive~~ composition of claim 2, wherein the solvent is diphenyl.

9. (Cancelled.)

10. (Presently amended.) The fuel composition of ~~claim 9~~ claim 1, wherein the liquid hydrocarbon fuel is gasoline.

11. (Presently amended.) The fuel composition of ~~claim 9~~ claim 1, wherein the liquid hydrocarbon fuel is diesel.

12. (Presently amended.) A method for improving the operating operation of a gasoline-powered, artificial ignition, internal combustion engine, comprising providing to said engine a fuel composition comprising consisting essentially of gasoline and a fuel additive comprising a mixture of a lithium aromatic sulfonate and organic peroxide, wherein the additive is present in an amount of about 1:800 to about 1:1400 effective to improve the combustion of the gasoline.

13. (Presently amended.) The method of claim 12, wherein the fuel ~~additive~~ additive is provided in a solvent-based system miscible with said gasoline fuel.

14. The method of claim 12, wherein the fuel comprises from 1 to 100 parts by weight of additive to 10,000 parts by weight of fuel.

15. (New.) The fuel composition of claim 1, wherein the liquid hydrocarbon fuel is heating oil.